Express5800

NEC

Command Line Interface User's Guide for NEC ExpressUpdate

Chapter1 About Command Line Interface

Chapter2 Component management

Chapter3 Group management

Chapter4 NEC ExpressUpdate

Chapter5 Log management

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About This Document

This document introduces command line interface of NEC ExpressUpdate. It is a function of the component management utility "NEC ESMPRO Manager".

Before attempting to operate the command line interface, read this document so as to gain an adequate understanding of the contents.

■ Attention

This document is intended for persons who are familiar with the operating system's functions and operations and the network's functions and setup. For operations and inquiries about the operating system, see its online help information.

This document covers universal information about generally managed components. The notes and restrictions on use of each product as a managed component are explained in the user's guide provided with the managed component.

Names used with screen images in this document are fictitious. They are unrelated to existing product names, names of organizations, or individual names. The setting values on the screen images are shown as examples, so setting values such as IP addresses on screen images are not guaranteed for operation.

■ About Symbols in This Document

The following explains three symbols that are used in this document:

IMPORTANT:	Points that are mandatory or require attention when using the software or the component.
CHECK:	Points that are require confirmation when using the software or the component.
TIP:	Helpful and convenient piece of information.

■ About Font in This Document

The *Italic* font shows the option of command in this document.

■ For other information about the NEC ESMPRO Manager

See the documents below.

NEC ESMPRO Manager Ver.5 Installation Guide
NEC ESMPRO Manager Ver.5 Setup Guide
NEC ESMPRO Manager Ver.5 Command Line Interface

Chapter1 About Command Line Interface

1.1 Overview

This document provides information about a Command Line Interface to NEC ExpressUpdate. This interface is executed by 'esmcli' command.

IMPORTANT:

- 'esmcli' command does not have a function to registering a component to NEC ESMPRO Manager. In case of registering a component, please use NEC ESMPRO Manager's Web interface.
- In case of CLI, following characters are not available in group name.
  "' \ < > & " ( ) ^"
- Using NEC ExpressUpdate, "Updates via NEC ExpressUpdate Agent" or "Updates via Management controller" of the component must be enabled.

1.2 System Requirements

'esmcli' command can be executed only on a management PC, which NEC ESMPRO Manager Ver. 5.4 or later is installed on.

NEC ESMPRO Manager command line interface requires following user level of operating system:

On Windows: Administrator
On Linux: root

CHECK:

- In case of Windows Vista, Windows 7, Windows Server 2008 and Windows Server 2008 R2, you need to set the permission to access to the directory including Command Line Interface execution file (esmcli.exe). After setting the permission, the standard user can also use Command Line Interface.

TIP:

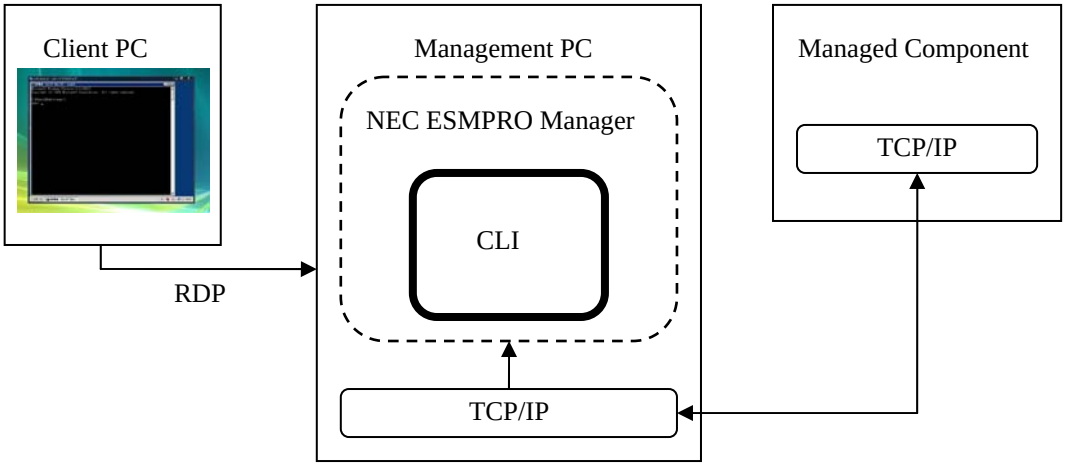
- See "NEC ESMPRO Manager Ver.5 Installation Guide" for information about system requirements of NEC ESMPRO Manager.

1.3 Configuring examples

When the client PC is different from the management PC, log in to the management PC using remote desktop, Telnet/SSH clients, etc.

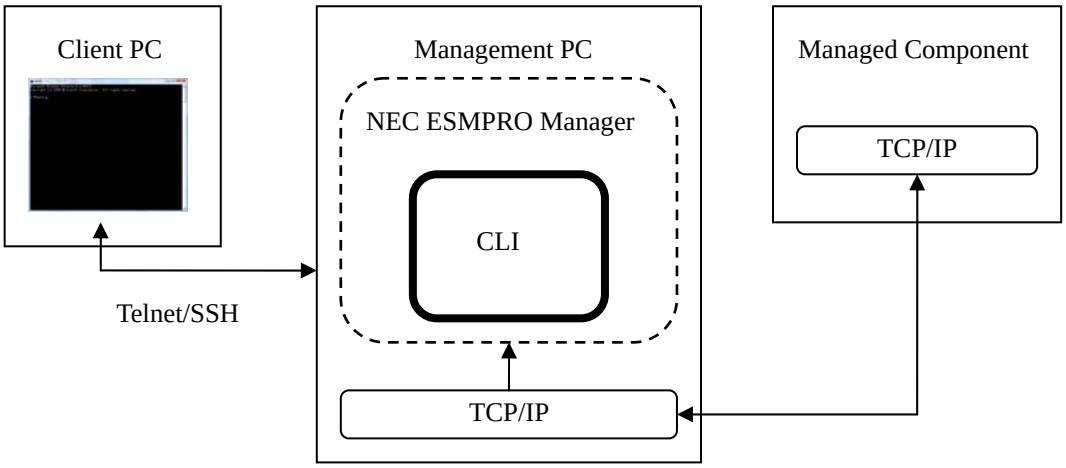
Examples

When NEC ESMPRO Manager is installed on Windows environments



Examples

When NEC ESMPRO Manager is installed on Linux environments



1.4 Using the command line

All commands in this document are executed by 'esmcli' command. When you install NEC ESMPRO Manager, 'esmcli' command is also installed on the following directories.

- Windows OS:
  C:\Program Files\ESMPRO\ESMMNG\bin
  This path is added to the system environment variable "PATH".

> **CHECK:**
> - The Windows path varies if NEC ESMPRO Manager is not installed in the default location.

- Linux OS:
  /opt/nec/es_manager/bin
  A symbolic link to 'esmcli' is created on /usr/bin directory.

'esmcli' has two mode, interactive "shell mode" and non-interactive "one liner mode".

1.4.1 Shell mode

In this mode, you can execute CLI commands interactively.

1.4.1.1 Logging in to the shell mode

To start the shell mode, enter the following command from a command line. Then input a user name and password of NEC ESMPRO Manager.
Please refer to "1.5Basic commands" for information about CLI commands.

esmcli *[Option]*

esmcli	The NEC ESMPRO Manager command line interface command
Option	Input an option. There are following options. *-h* | *-help* Display the syntax of esmcli commands. When this option is specified, the shell mode does not start. *-u* | *-user <user name>* Specifies an user name of NEC ESMPRO Manager. At the time of login, the input of the user name is omitted. *-p* | *-pswd <password>* Specifies an user password of NEC ESMPRO Manager. At the time of login, the input of the user password is omitted.

> **TIP:**
> - The password at the time of the login can input the password that encrypted in "1.4.3Encrypting of the password".

Examples
If username and password are not specified at command line options, enter them at following prompts.

```
> esmcli
user:
passwd:
```

Examples
When you specify the user name and the password at command line, please input as follows.

```
esmcli -u Administrator -p password
```

Examples

When you specify the encrypted password, please input as follows. See 1.4.3Encrypting of the password.

```
esmcli -u Administrator -p {ENC}c10f239c9f7d203fa4424bffb06b6713
```

When the log in is successful, 'esmcli' prompt is displayed.

```
NEC ESMPRO Manager Version5
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->
```

1.4.1.2 Logging out of the shell mode

To exit the shell mode, enter the exit command or input Ctrl + C.

```
-> exit
```

1.4.1.3 Keyboard Shortcuts

This section describes keyboard shortcuts list.

Table 1-1 Keyboard Shortcuts

Keyboard Shortcuts	Description
Enter	Decision.
BackSpace	Erase one character.
Tab	Autocompletes from the cursor position.
←	Moves the cursor backward one character.
→	Moves the cursor forward one character.
↑	Recalls the prior command.
↓	Recalls the next command.
Ctrl + B	Moves the cursor backward one character. (equivalent to the key "←")
Ctrl + F	Moves the cursor forward one character. (equivalent to the key "→")
Ctrl + A	Moves the cursor to the line start.
Ctrl + E	Moves the cursor to the line end.
Ctrl + G	Move the cursor to the top of the word before one. Because there are space and hyphen ("-") and directory separator ("/"or"\"), the word is discerned.
Ctrl + P	Recalls the prior command. (equivalent to the key " ↑ ")
Ctrl + N	Recalls the next command. (equivalent to the key " ↓ ")"
Ctrl + I	Autocompletes from the cursor position. (equivalent to the key "Tab)
Ctrl + V	Paste. (Supported only in Windows OS.)
Ctrl + J	Decision. (equivalent to the key "Enter")
Ctrl + M	Decision. (equivalent to the key "Enter")
Ctrl + H	Erase one character. (equivalent to the key "BackSpace")
Ctrl + L	Clear the screen. (Supported only in Linux OS.)
Ctrl + K	Delete the line after the cursor position.
Ctrl + U	Delete the line before the cursor position.
Ctrl + W	Delete all the letters from the cursor to the directory separator before one.
Ctrl + D	When there is an input, delete one character of the position of the cursor. When there is not an input, finish the shell mode.
Ctrl + C	Finish the shell mode.

1.4.2 One liner mode

The one liner mode executes only specified CLI command without starting the shell function of esmcli.
To execute the one liner mode, enter a CLI command following to a username and password from a command line as shown below. And please input user name and password of NEC ESMPRO Manager.
Please refer to "1.5Basic commands" for the CLI command to execute.

esmcli *[Option]* '{CLI Command}'

esmcli	Indicates the NEC ESMPRO Manager command line interface command
Option	Input an option. There are following types of option. *-h*	*-help* Display the command syntax of the esmcli command. When this option is appointed, the shell mode does not start. *-u*	*-user <user name>* Input user name of NEC ESMPRO Manager. At the time of login, the input of the user name is omitted. *-p*	*-pswd <password>* Input user password of NEC ESMPRO Manager. At the time of login, the input of the user password is omitted.
'{CLI Command}'	Surround the CLI command to execute with '.

TIP:

- The password at the time of the login can input the password that encrypted in "1.4.3Encrypting of the password".

Examples

Following command enables you to execute 'show /' command.

esmcli *-u Administrator -p password* 'show /'

Examples

Using an encrypted password, please input it as follows.

esmcli *-u Administrator -p {ENC}c10f239c9f7d203fa4424bffb06b6713* 'show /'

1.4.2.1 Notes on executing one liner mode

(1) When entering special characters

When input double quotation (") in CLI command, please set \ before double quotation.
The following shows examples.

esmcli *-u Administrator -p password* 'show /cmps/\"server 01\"/map/expup'

1.4.3 Encrypting of the password

The esmclipasswd command is used for encrypting of the password.
To encrypt the password, enter the command following the command prompt as shown below.

esmclipasswd *[Option]* <Password>

esmclipasswd	Indicates the NEC ESMPRO Manager command line interface command
Option	Input an option. There are following types of option. *-h*	*-help* Display the command syntax of the esmclipasswd command. When this option is appointed, the password doesn't encrypt.
<Password>	Input a password to encrypt.

Examples

When you encrypt the password, please input it as follows.

```
>esmclipasswd password
{ENC}c10f239c9f7d203fa4424bffb06b6713
```

The encrypted password is displayed on the screen.

1.5 Basic commands

This section describes basic commands. These basic commands are based on SMASH style proposed by DMTF (Distributed Management Task Force).

Help string, command syntax, of each command appears when *"-h | -help"* option is specified as the *<options>* of the command. The argument placed between "[" and "]" is omissible.

TIP:

- In the case of the user authority is Administrator, the user can execute all basic commands.
- In the case of the user authority is Operator, the user can execute cd, exit, help and show commands. Other commands become executable by setting of the user level. The details please identify a chapter of each operation.
- help, cd, exit and show commands are supported at all of targets.

help

Syntax

help *[<options>]* [<target>]

Description

The help command is used to request information related to the use of the CLP.

When you omit <target>, the help command will display information about the use of current target.

cd

Syntax

cd *[<options>]* [<target>]

Description

The cd command is used to change the current default target to the target specified by the <target> argument.

You can shorten a command by changing current target.

When you omit <target>, the cd command will display current target.

exit

Syntax

exit *[<options>]*

Description

The exit command terminates and logs out the user session.

show

Syntax

show *[<options>]* [<target>]

Description

The show command is used to display information about <target>.

When you omit <target>, the show command will display information about current target.

create

Syntax

create *[<options>]* <target>

Description

The create command is used to create new target objects.

delete

Syntax

delete *[<options>]* [<target>]

Description

The delete command is used to remove a target.

When you omit <target>, the delete command will delete current target.

load

Syntax

load *[<options>]* [<target>]

Description

The load command is used to take a binary image from a specific source location and place it at the specified target address.

reset

Syntax

reset *[<options>]* [<target>]

Description

The reset command resets the target's state.

set

Syntax

set *[<options>]* [<target>] <propertyname>=<value>…

Description

The set command is used to set the value of one or more of a target's properties.

start

Syntax

start *[<options>]* [<target>]

Description

The start command starts the target.

stop

Syntax

stop *[<options>]* [<target>]

Description

The stop command stops the target.

dump

Syntax

dump *–destination <path> [<options>]* [<target>]

Description

The dump command is used to take a binary image from the target and send it to a specific location.

1.5.1 Target

Each basic command functions to a specified target. The target points the managed element by address path much like the path to a file in a file system.

Both absolute path, which is started from "/", and relative path are available for pointing the target. Specifically, "." and ".." are supported. The "." means the current default target and the ".." means the parent target.

Specifying the target, enter <target> following to each basic command. If it is not specified, commands functions to a current default target. The current default target can be changed by the cd command. The current default target is "/"(root) when the command line interface session is started.

1.5.2 Basic options

This section describes basic options based on SMASH style.

-h | -help

Description

Displays documentation about the command verb.
When this option is specified, the command is not executed.
This option is supported by all basic commands.

-x | -examine

Description

Checks the syntax of the command.
When this option is specified, the command is not executed.
This option is supported by all basic commands.

-d | -display <type>[,<type>,…]

Description

Shows information of the selected <*type*>.
This option is supported by show command.
Type can specify the following items. If there are multiple types, they must be separated by commas.

targets[=(<name>, …)]

Shows the target.
When <*name*> is specified, the target that matches <*name*> is displayed.
If there are multiple <*name*>, they must be surrounded by parenthesis and separated by commas.

properties[=(<name>, …)]

Shows properties.
When <*name*> is specified, the property that matches <*name*> is displayed.
If there are multiple <*name*>, they must be surrounded by parenthesis and separated by commas.

verbs

Shows supported commands.

Examples

(1) Shows only targets

Show *-d Targets*

(2) Shows target whose name is “server01” and supported commands.

show *-d targets=server01,verbs*

(3) Shows property whose name is “Name” or “Status”, and shows supported commands.

show *-d properties=(Name,Status),verbs*

1.5.3 Specific options

This section describes NEC ESMPRO Manager specific options.

-exclude <arg>[,<arg>,…]

Description

Specifies exceptional items. This option is effective when the target is group.

cmp="("<name>,<name>, …,<name>")"

Specifies exceptional items using component names.

If there are some <*name*>, they must be separated by comma and surrounded by parentheses.

grp="("<name>,<name>, …,<name>")"

Specifies exceptional items using group names.

If there are some <*name*>, they must be separated by comma and surrounded by parentheses.

ufit="("<name>,<name>, …,<name>")"

Specifies exceptional items using UFiT.

If there are some <*name*>, they must be separated by comma and surrounded by parentheses.

TIP:

- UFiT is displayed at the result of show command.

-outputfile <path>

Description

Saves command result to a file of specified path.

When the file of specified path is not existing, new file is created and output it.

When the file of specified path exists and the file is not an output file of esmcli, the command result will be error.

This option is supported by all basic commands.

1.6 Example of command output

All commands shows results as following format.

```
-> <CLI command>
<status>
results

->
```

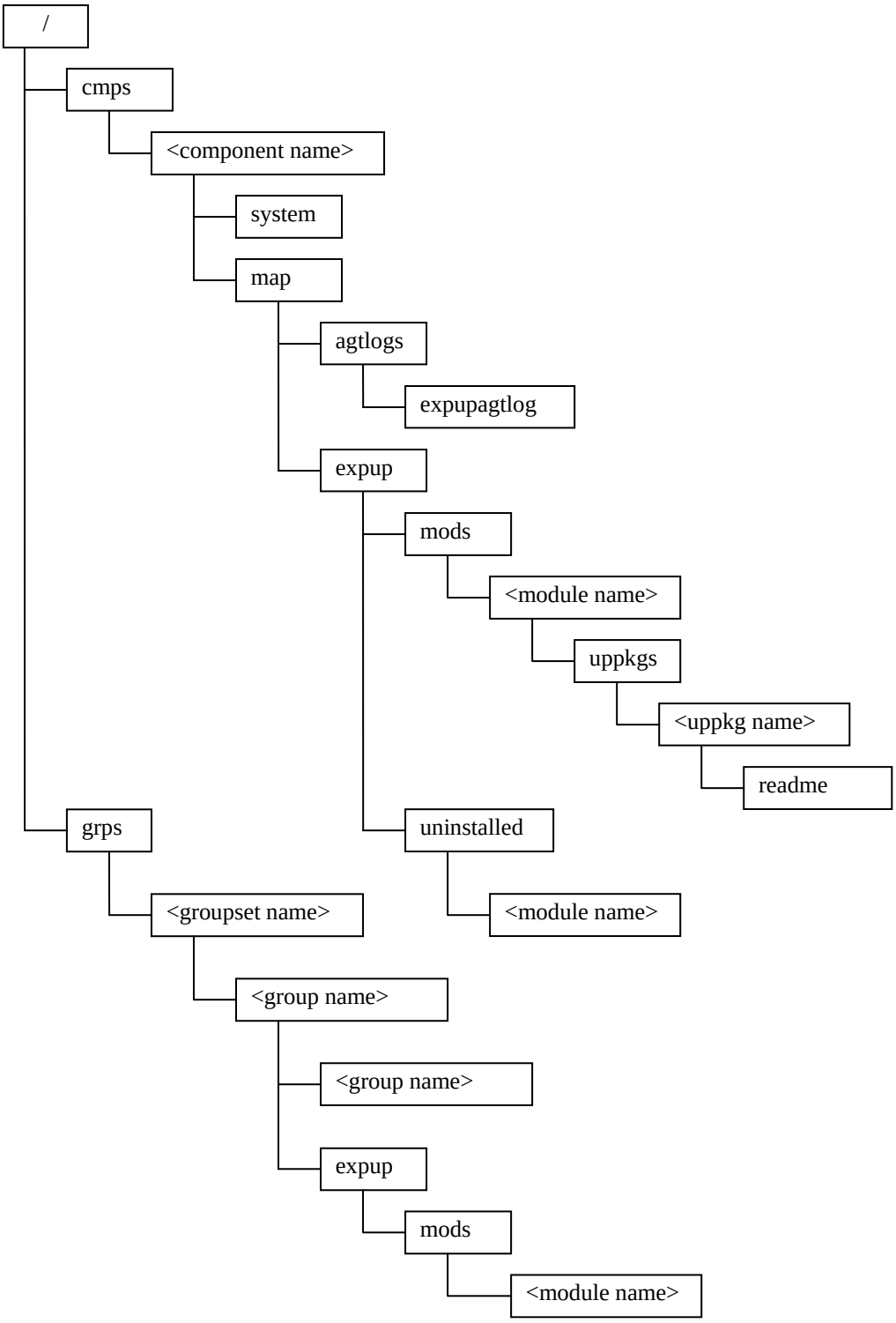
Each status is listed in below table.

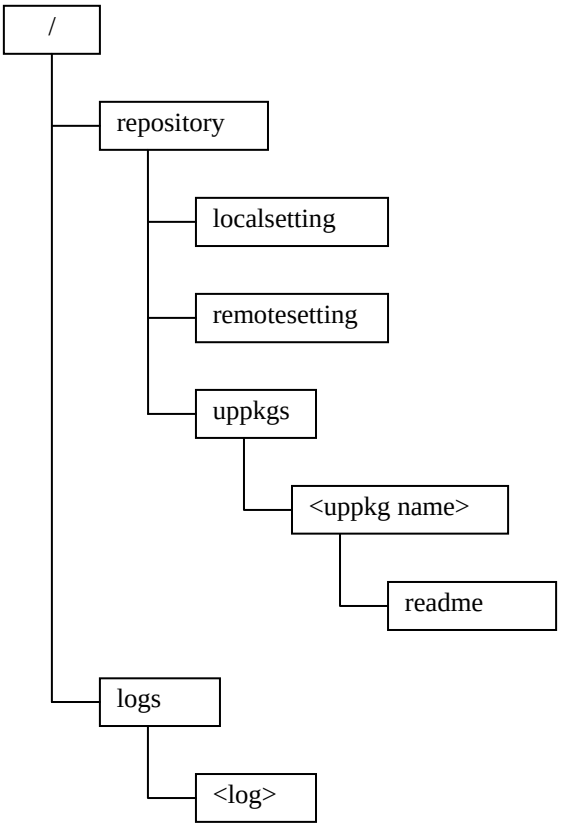
Table 1-2 Statuses

Status	Description
COMMAND COMPLETED	Command was successful. Following commands skips to show this status. • cd • exit • help • how
COMMAND PROCESSING FAILED	Syntax error was occurred.
COMMAND EXECUTION FAILED	Command was unsuccessful.

1.7 Diagram of the entire address space

A diagram of the entire address space is as follow.




/
repository
localsetting
remotesetting
uppkgs
<uppkg name>
readme
logs
<log>

Chapter2 Component management

2.1 Component information

2.1.1 Showing a list of components

'show' command at following target shows a list of all managed components.

- /cmps

Properties of this target are as follow. There is no specified command for this target.

Table 2-1 Properties of '/cmps'

Property	Access	Description
EntryCount	read	Displays a number of registered components.
Status	read	Displays a representative status of all of the components.
ExpUpStatus	read	Displays a representative NEC ExpressUpdate status of all of the components. Refer to Table 4-2 NEC ExpressUpdate statuses to get information about NEC ExpressUpdate status.

Example

'show' command shows a list of managed components.

More concrete examples are as follows.

```
-> show
ufip=/cmps
ufit=cmps
Targets:
   Server01
   Server02
Properties:
   EntryCount=2
   Status=NORMAL
   ExpUpStatus=LATEST_CONDITION
Verbs:
   cd
   exit
   help
   show
```

Tip:

- 'show /cmps' command also shows above information even if the current target is not "/cmps".

2.1.2 Showing component information

'show' command at following target shows information of managed component.

- /cmps/<Component Name>

Properties of this target are as follow. There is no specified command for this target.

Table 2-2 Properties of '/cmps/<Component Name>'

Property	Access	Description
Name	read	Displays a name of the component.
Status	read	Displays a representative status of all of the components.
ExpUpStatus	read	Displays a representative NEC ExpressUpdate status of all of the components. Refer to Table 4-2 to get information about NEC ExpressUpdate status.
Group	read	Displays a name of a group which the component belongs to.
IpAddress	read	Displays an IP address of the component.
BmcIpAddress	read	Displays a BMC's IP address of the component.
Model	read	Displays a model name of the component.
SerialNumber	read	Displays a serial number of the component.
Guid	read	Displays a GUID of the component.
OsVersion	read	Displays an OS information of the component.

Example

'show' command shows information of the component.

More concrete examples are as follows.

```
-> show /cmps/Server01
ufip=/cmps/Server01
ufit=Server01
Targets:
   system
   map
Properties:
   Name=Server01
   Status=NORMAL
   ExpUpStatus=LATEST_CONDITION
   Group=group01
   IpAddress=192.168.14.18
   BmcIpAddress=192.168.14.19
   Model=Express5800/51Ma    [N8000-2001]
   SerialNumber=1234567
   Guid=AAAAAAAA-0000-BBBB-1111-CCCCCCCCCCCC
   OsVersion=Microsoft Windows Vista Business    Service Pack 2
Verbs:
   cd
   exit
   help
   show
```

Chapter3 Group management

3.1 Group information

3.1.1 Showing a list of groupset

'show' command at the following target shows a list of groupset.

- /grps

Property of this target is as follow. There is no specified command for this target.

Table 3-1 Properties of '/grps'

Property	Access	Description
EntryCount	read	A number of registered groupset.

Example

'show' command shows a list of groupset.

More concrete examples are as follows.

```
-> show /grps
ufip=/grps
ufit=grps
Targets:
   grpset
   chassisset
Properties:
   EntryCount=2
Verbs:
   cd
   exit
   help
   show
```

3.1.2 Showing information of groupset

'show' command at the following target shows information of groupset.

- /grps/<GroupSet Name>

Properties of this target are as follow. There is no specified command for this target.

Table 3-2 Properties of '/grps/<GroupSet Name>'

Property	Access	Description
Name	read	Displays a name of groupset.
RootGroup	read	Displays root group's name.

Example

'show' command shows information of a groupset.

More concrete examples are as follows.

```
-> show /grps/grpset
ufip=/grps
ufit=grps
Targets:
   root
Properties:
   Name=grpset
   RootGroup=root
Verbs:
   cd
   exit
   help
   show
```

3.1.3 Showing information of group

'show' command at the following target shows information of a group.

- /grps/<GroupSet Name>/<Group Name>

Properties of this target are as follow. There is no specified command for this target.

Table 3-3 Properties of '/grps/<GroupSet Name>/<Group Name>'

Property	Access	Description
Name	read	Displays a name of the group.
Status	read	Displays a status of the group.
ExpUpStatus	read	Displays an NEC ExpressUpdate status of the group.
GroupCount	read	Displays a number of groups belonging to the group.
ComponentCount	read	Displays a number of components belonging to the group.
Comment	read	Displays a comment of the group.
Components	read	Displays a list of components belonging to the group.

Example

'show' command shows information of the group.
More concrete examples are as follows.

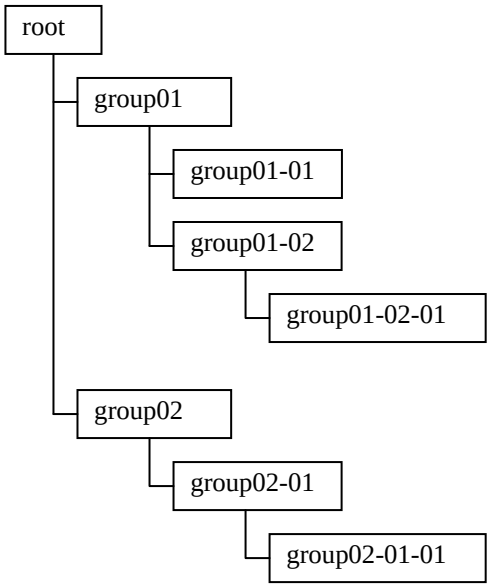
```
-> show /grps/grpset/root
ufip=/grps/grpset/root
ufit=root
Targets:
   group01
   group02
   expup
Properties:
   Name=grpset
   Status=NORMAL
   ExpUpStatus=LATEST_CONDITION
   GroupCount=2
   ComponentCount=3
   Comment=-
   Components=server01
                server02
                server03
Verbs:
   cd
   exit
   help
   show
```

When show command is executed to groups, 'grpall' is able to specify as a <type> of –display option. If it is specified, all groups are show as hierarchy style.

Following command shows all groups as hierarchy.

```
show -display targets,grpall
```

Followings are example of the below hierarchy diagram.




```
-> show -display targets,grpall /grps/grpset/root
ufip=/grps/grpset/root
ufit=root
Targets:
   group01
      group01-01
      group01-02
         group01-02-01
   group02
      group02-01
         group02-01-01
   expup
```

Chapter4 NEC ExpressUpdate

4.1 NEC ExpressUpdate information

4.1.1 Displaying NEC ExpressUpdate information

4.1.1.1 Information of components

'show' command at the below target enables you to view NEC ExpressUpdate information about the specified component.

- /cmps/<Component Name>/map/expup

Properties and specific commands of this target are as follows.

Table 4-1 Properties of '/cmps/<Component Name>/map/expup'

Property	Access	Description
ExpUpStatus	read	Displays NEC ExpressUpdate statuses. Each status is listed in Table 4-2.
NextUpdateDate	read	Displays time and date of the next update if the update is scheduled by the remote batch function.
RepositoryLocation	read	Displays a location of the repository. (local/remote)
UpdatePkgLatestDownloaded	read	Displays the most recent time when the repository was updated. If updating has never been executed, it shows 'None'.
NextDownloadDate	read	Displays time and date of the next repository update if it is scheduled.

Table 4-2 NEC ExpressUpdate statuses

Status	Description
NOT_LATEST	The repository has update packages newer than current version.
UNDER_INSTALLATION	An updating is in progress.
UNDER_UNINSTALLING	An uninstallation is in progress. A progress ratio is also shown.
REBOOTING	The update which requires rebooting the system is executed and rebooting is in progress. It is not possible to update a module under this status.
REBOOT_REQUIRED	This status shows that the system has not been rebooted yet although the update requires rebooting. In this status, the update has not been completed yet. This status is cleared by rebooting the system. It is not possible to update a module under this status.
LATEST_CONDITION	The repository has no update package newer than current version.
INSTALLATION_FAILED	This status shows that the last update command was unsuccessful. This status is cleared by rebooting the system. A reason of the failure is shown in application logs. Refer to section 5.1.1 and 5.1.2 to get more information about the application log. It is not possible to update a module under this status.
ACCESS_FAILED	There is no communication to NEC ExpressUpdate Agent.
UNKNOWN	Failed to get version information because the repository has incompatible packages. Updating NEC ESMPRO Manager is required.
NO_PACKAGE	The repository has no package.
INSTALLABLE	The specified software is installable.

Table 4-3 Specific commands of '/cmps/<Component Name>/map/expup'

Command	Description
load	Updates all modules of <Component Name> to the latest version. Refer to section 4.2.1.1 for more information.
stop	Cancels all update command to <Component Name>. Refer to section 4.2.4.1 for more information.

Example

`show /cmps/<Component Name>/map/expup` command enables you to view NEC ExpressUpdate information of the component <Component Name>.

```
-> show /cmps/Server01/map/expup
ufip=/cmps/Server01/map/expup
ufit=expup
Targets:
   mods
   uninstalled
Properties:
   RepositoryLocation=LOCAL
   ExpUpStatus=NOT_LATEST
   UpdatePkgLatestDownloaded=4/1/2011 01:00:00
   NextDownloadDate=4/2/2011 01:00:00
   Model=Express5800/110Ge-S
   OsVersion=Microsoft Windows Vista Business    Service Pack 2 x64
   NextUpdateDate=5/1/2011 12:00
Verbs:
   cd
   exit
   help
   show
   load
   stop
```

4.1.1.2 Information of groups

'show' command at the below target enables you to view NEC ExpressUpdate information about the specified group.

- /grps/grpset/<Group Name>/expup

Properties and specific commands of this target are as follows.

Table 4-4 Properties of '/grps/grpset/<Group Name>/expup'

Property	Access	Description
ExpUpStatus	read	Displays NEC ExpressUpdate statuses. Each status is listed in Table 4-2.
RepositoryLocation	read	Displays a location of the repository. (local/remote)
UpdatePkgLatestDownloaded	read	Displays the most recent time when the repository was updated. If updating has never been executed, it shows 'None'.
NextDownloadDate	read	Displays time and date of the next repository update if it is scheduled.

Table 4-5 Specific commands of '/grps/grpset/<Group Name>/expup'

Command	Description
load	Updates all modules of components belonging to the specified group to the latest version. Refer to section 4.2.1.3 for more information.
stop	Cancels all update command to <Group Name>. Refer to section 4.2.4.2 for more information.

Example

`show /grps/grpset/<Group Name>/expup` command enables you to view NEC ExpressUpdate information of the group<Group Name>.

```
-> show /grps/grpset/root/expup
ufip=/grps/grpset/root/expup
ufit=expup
Targets:
   mods
Properties:
   RepositoryLocation=LOCAL
   ExpUpStatus=NOT_LATEST
   UpdatePkgLatestDownloaded=4/1/2011 01:00:00
   NextDownloadDate=4/2/2011 01:00:00
Verbs:
   cd
   exit
   help
   show
   load
   stop
```

4.1.2 Displaying a list of modules

4.1.2.1 Information of components

A list of modules for the specified component is displayed at the below target.

- /cmps/ <Component Name>/map/expup/mods

Property of this target is as follow. There is no specified command for this target.

Table 4-6 Property of '/cmps/ <Component Name>/map/expup/mods'

Property	Access	Description
EntryCount	read	Displays a number of modules managed by NEC ExpressUpdate.

Example
`show /cmps/<Component Name> /map/expup/mods` command enables you to view a list of modules for the specified component<Component Name>.

```
-> show /cmps/Server01/map/expup/mods
ufip=/cmps/Server01/map/expup/mods
ufit=mods
Targets:
   "System BIOS"
   "BMC Firmware"
   "NEC ExpressUpdate Agent"
Properties:
   EntryCount=3
Verbs:
   cd
   exit
   help
   show
```

4.1.2.2 Information of groups

A list of modules for components belongings to the specified group is displayed at the below target.

- /grps/grpset/<Group Name>/expup/mods

Property of this target is as follow. There is no specified command for this target.

Table 4-7 Property of '/grps/grpset/ <Group Name>/ expup/mods'

Property	Access	Description
EntryCount	read	Displays a number of modules managed by NEC ExpressUpdate.

Example
`show /grpset/<Group Name>/ expup/mods` command enables you to view a list of modules for components belongings to the specified group<Group Name>.

```
-> show /grps/grpset/root/expup/mods
ufip=/grps/grpset/root/expup/mods
ufit=mods
Targets:
   "System BIOS"
   "BMC Firmware"
   "NEC ExpressUpdate Agent"
Properties
   EntryCount=3
Verbs
   cd
   exit
   help
   show
```

4.1.3 Displaying module information

4.1.3.1 Information of components

Information about each module is displayed at the below target.

- /cmps/<Component Name>/map/expup/mods/<Module Name>

Properties and specific commands of this target are as follows.

Table 4-8 Properties of '/cmps/<Component Name>/map/expup/mods/<Module Name>'

Property	Access	Description
Module	read	Displays a name of this module.
ExpUpStatus	read	Displays NEC ExpressUpdate status of this module. Each status is listed in Table 4-2.
Version	read	Displays current version of this module.
Severity	read	Displays a severity of the update. Severities are as follows: • HIGH • MEDIUM • LOW
LatestApplyResult	read	Displays result of the most recent update. If updates have never been executed, it shows hyphen (-).

Table 4-9 Specific commands of '/cmps/<Component Name>/map/expup/mods/<Module Name>'

Command	Description
load	Updates or installs the specified module. Refer to section 4.2.1.2 and 4.2.2 for more information.
delete	Uninstalls the specified module. Refer to section 4.2.3 for more information.

Example

`show /cmps/<Component Name>/map/expup/mods/<Module Name>` command enables you to view information about the module<Module Name> of the component<Component Name>.

```
-> show /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
ufip=/cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
ufit="NEC ExpressUpdate Agent"
Targets:
   uppkgs
Properties:
   Module= NEC ExpressUpdate Agent
   ExpUpStatus=NOT_LATEST
   Version=3.0
   Severity=HIGH
   LatestApplyResult=4/1/2011 12:00:00
                          Applying the update package has been completed successfully.
                          (NEC ExpressUpdate Agent: 1.0 -> 2.0)
Verbs:
   cd
   exit
   help
   show
   load
   delete
```

4.1.3.2 Information of groups

Information about each module is displayed at the below target.

- /grps/grpset/<Group Name>/expup/mods/<Module Name>

Properties and specific commands of this target are as follows.

Table 4-10 Properties of '/grps/grpset/<Group Name>/expup/mods/<Module Name>'

Property	Access	Description
Module	read	Displays a name of this module.
ExpUpStatus	read	Displays NEC ExpressUpdate status of this module. Each status is listed in Table 4-2.

Table 4-11 Specific command of '/grps/grpset/<Group Name>/expup/mods/<Module Name>'

Command	Description
load	Updates the specified module. Refer to section 4.2.1.4 for more information.

Example

`show /grps/grpset/<Group Name>/expup/mods/<Module Name>` command enables you to view information about the module<Module Name> of the component< Group Name>.

```
-> show /grps/grpset/root/expup/mods/"NEC ExpressUpdate Agent"
ufip=/grps/grpset/root/expup/mods/"NEC ExpressUpdate Agent"
ufit="NEC ExpressUpdate Agent"
Targets:
   uppkgs
Properties:
   Module= NEC ExpressUpdate Agent
   ExpUpStatus=NOT_LATEST
   Version=3.0
   Severity=HIGH
   LatestApplyResult=4/1/2011 12:00:00
                          Applying the update package has been completed successfully.
                          (NEC ExpressUpdate Agent: 1.0 -> 2.0)
Verbs:
   cd
   exit
   help
   show
   load
   delete
```

4.2 Update, install and uninstall

4.2.1 Update commands

4.2.1.1 For the specified component

'load' command at the below target enables you to update all modules to the latest version.

- /cmps/<Component Name>/map/expup

Specific option of this command is as follow.

Table 4-12 Specific option of '/cmps/ <Component Name>/map/expup'

Option	Description
-reboot	Enables NEC ExpressUpdate to reboot the system if the update requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`load /cmps/<Component Name>/map/expup` command enables you to update all modules of the specified component<Component Name>.

```
-> load -reboot /cmps/Server01/map/expup
COMMAND COMPLETED
Updating was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element and you can confirm this command's result from LatestApplyResult property.
   /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
```

TIP:

- If the update is in progress, ExpUpStatus property of `show /cmps/<Component Name>/map/expup/mods/<Module Name>` command shows the progress.

```
-> show /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
ufip=/cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
ufit="NEC ExpressUpdate Agent"
Targets
   uppkgs
Properties
   Module= NEC ExpressUpdate Agent
   ExpUpStatus=UNDER_INSTALLATION (5%)
   Version=2.0
   Severity=HIGH
   LatestApplyResult=4/1/2011 12:00:00
                        Applying the update package has been completed successfully.
                        (NEC ExpressUpdate Agent: 1.0 -> 2.0)
Verbs
   cd
   exit
   help
   show
   load
   delete
```

TIP:

- If the update has been finished, the result is shown in LatestApplyResult property of `show /cmps/<Component Name>/map/expup/mods/<Module Name>` command.

```
LatestApplyResult=4/1/2011 12:00:00
                    Applying the update package has been completed successfully.
                    (NEC ExpressUpdate Agent: 2.0 -> 3.0)
```

4.2.1.2 For the specified component and module

'load' command at the below target enables you to update the module <Module Name> of the component <Component Name> using the specified update package.

- /cmps/<Component Name>/map/expup/mods/<Module Name>

Specific option of this command is as follow.

Table 4-13 Specific options of '/cmps/<Component Name>/map/expup/mods/<Module Name>'

Option	Description
-source	Specifies the update package.
-f | *-force*	Enables NEC ExpressUpdate to update the module using an update package which is not latest.
-reboot	Enables NEC ExpressUpdate to reboot the system if the update requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

TIP:

- UFiT of the update package that is referred by *–source* option is shown in the result of `show /cmps/<Component Name>/map/expup/mods/<Module Name>/uppkgs` command.

Example

`load /cmps/ <Component Name>/map/expup/mods/ <Module Name>` command enables you to update the module <Module Name> of the component <Component Name> using the specified update package.

```
-> load -force -source "2.0" /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
COMMAND COMPLETED
Updating was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element and you can confirm this command's result from LatestApplyResult property.
   /cmps/ Server01/map/expup/mods/"NEC ExpressUpdate Agent"
```

4.2.1.3 For the specified group

'load' command at the below target enables you to update all modules of components belonging to the specified group<Group Name>. Refer to the section 4.1.3.1 for more information about this target.

- /grps/grpset/<Group Name>/expup

Specific option of this command is as follow.

Table 4-14 Specific options of '/grps/grpset/<Group Name>/expup'

Option	Description
-exclude	Specifies components or groups that are not included in this operation.
-reboot	Enables NEC ExpressUpdate to reboot the system if the update requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`load /grps/grpset/<Group Name>/expup` command enables you to update all modules of components belonging to the specified group<Group Name>.

```
-> load -exclude cmp=Server02 /grps/grpset/root/expup
COMMAND COMPLETED
Updating was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element and you can confirm this command's result from LatestApplyResult property.
```

4.2.1.4 For the specified group and module

'load' command at below targets enables you to update the specified module <Module Name> of components belonging to the specified group <Group Name>. Refer to the section 4.1.1.2 for more information about this target.

- /grps/grpset/<Group Name>/expup/mods/<Module Name>

Specific option of this command is as follow.

Table 4-15 Specific options of '/grps/grpset/<Group Name>/expup/mods/<Module Name>'

Option	Description
-exclude	Specifies components or groups that are not included in this operation.
-reboot	Enables NEC ExpressUpdate to reboot the system if the update requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`load /grps/grpset/ <Group Name>/expup/mods/ <Module Name>` command enables you to update the specified module <Module Name> of components belonging to the specified group <Group Name>.

```
-> load -exclude cmp=Server02 /grps/grpset/root/expup/mods/"NEC ExpressUpdate Agent"
COMMAND COMPLETED
Updating was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element and you can confirm this command's result from LatestApplyResult property.
  /cmps/ Server01/map/expup/mods/"NEC ExpressUpdate Agent"
```

4.2.2 Install commands

'load' command at below target enables you to install a module. Refer to the section 4.1.3.1 for more information about this target.

- /cmps/<Component Name>/map/expup/mods/<Module Name>

Specific option of this command is as follow.

Table 4-16 Specific options of '/cmps/<Component Name>/map/expup/mods/<Module Name>'

Option	Description
-source	Specifies the update package.
-reboot	Enables NEC ExpressUpdate to reboot the system if the installation requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`load /cmps/<Component Name>/map/expup/mods/<Module Name>` command enables you to install an module<Module Name> to the specified component<Component Name>.

```
-> load -source "4.4.1" /cmps/Server01/map/expup/mods/"ESMPRO/ServerAgent Ver.4.4"
COMMAND COMPLETED
Updating was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element and you can confirm this command's result from LatestApplyResult property.
```

TIP:

- UFiT of the update package that is referred by *-source* option is shown in the result of `show /cmps/<Component Name>/map/expup/mods/<Module Name>/uppkgs` command.

4.2.3 Uninstall commands

'delete' command enables you to uninstall a module. Refer to the section 4.1.3.1 for more information about this target.

- /cmps/ <Component Name>/map/expup/mods/<Module Name>

Specific option of this command is as follow.

Table 4-17 Specific option of '/cmps/<Component Name>/map/expup/mods/<Module Name>'

Option	Description
-reboot	Enables NEC ExpressUpdate to reboot the system if the uninstallation requires it.

CHECK：

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`load /cmps/<Component Name>/map/expup/mods/<Module Name>` command enables you to uninstall an module<Module Name>from the specified component<Component Name>.

```
-> load /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
COMMAND COMPLETED
Uninstall was started. Run the show command to the each module element and you can confirm this command's progress from ExpUpStatus property. Run the show command to the each module element under the uninstalled element and you can confirm this command's result from LatestApplyResult property.
```

4.2.4 Cancelling update commands

4.2.4.1 For components

'stop' command at below targets enables you to cancel updates. Refer to the section 4.1.1.1 for more information about this target.

- /cmps/<Component Name>/map/expup

There is no specific option for this command.

CHECK :

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

TIP:

- This command effects only waiting tasks. A task which has been started is unable to be cancelled.

Example

`stop /cmps/<Component Name>/map/expup` command enables you to cancel updates of the specified component <Component Name>. If this command is successful, a list of cancelled tasks is shown.

```
-> stop /cmps/Server01/map/expup
COMMAND COMPLETED
   /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
Cancel of update process was executed.
```

4.2.4.2 For groups

'stop' command at below targets enables you to cancel updates. Refer to the section 4.1.1.2 for more information about this target.

- /grps/grpset/<Group Name>/expup

There is no specific option for this command.

CHECK :

- In the case of the user authority is Operator, "Install Update Packages" of the user level must be enabled.

Example

`stop /grps/grpset/<Group Name>/expup` command enables you to cancel updates of components belonging to the specified group <Group Name>. If this command is successful, a list of cancelled tasks is shown.

```
-> stop /grps/grpset/root/expup
COMMAND COMPLETED
   /cmps/Server01/map/expup/mods/"BMC Firmware"
   /cmps/Server01/map/expup/mods/"NEC ExpressUpdate Agent"
   /cmps/Server02/map/expup/mods/"NEC ExpressUpdate Agent"
Cancel of update process was executed.
```

4.3 Repository and Update package management

4.3.1 Repository settings

Repository settings are located at the following target.

- /repository

Properties and specific commands of this target are as follows.

Table 4-18 Properties of '/repository'

Property	Access	Description
RepositoryLocation	read/write	Displays and sets location of the repository. The valid values are: • LOCAL • REMOTE
UpdatePackageServerAddress	read	Displays address of update package server.
UpdatePkgLatestDownloaded	read	Displays the date when the repository downloaded update packages last.
TotalSizeOfUpdatePackage	read	Displays total size of update packages. The unit is MB.

Table 4-19 Specific commands of '/repository'

Command	Description
set	Sets repository settings. This command enables you to modify location of the repository.
load	Downloads or adds update packages to repository.

Examples

'show' command enables you to view the repository settings.

```
-> show /repository
ufip=/repository
ufit=repository
Targets:
   uppkgs
   localsetting
   remotesetting
Properties:
   RepositoryLocation=LOCAL
   UpdatePackageServerAddress=http://www.exifs.nec.co.jp/
   UpdatePkgLatestDownloaded=4/1/2011 12:00:00
   TotalSizeOfUpdatePackage=34.2MB
Verbs:
   cd
   exit
   help
   show
   load
   set
```

Examples

'set' command enables you to modify location of the repository.

When you modify location of the repository in local, run the following command.

```
set /repository RepositoryLocation=LOCAL
```

Examples

When you modify location of the repository in remote, run the following command in the remote repository settings have been set.

```
set /repository RepositoryLocation=REMOTE
```

CHECK：

- When you set RepositoryLocation in REMOTE, you should set remote repository settings beforehand. See 4.3.1.2Remote repository settings.
- In the case of the user authority is Operator, "Change Environment Setting" of the user level must be enabled.

4.3.1.1 Local repository settings

You can view and change Manager PC repository settings. Local repository settings are located at the following target.

- /repository/localsetting

Properties and specific commands of this target are as follows.

Table 4-20 Properties of '/repository/localsetting'

Property	Access	Description
RepositoryPassword	read/write	Sets the password to access repository. This is displayed in "*****".
AutoUpdate	read/write	Sets the automatic updating of the repository. The valid values are: • INVALID • VALID – the repository downloads update packages.
UpdateInterval	read/write	Sets the schedule type when "AutoUpdate" is "VALID". The valid values are: • DAILY • EVERY_SUNDAY • EVERY_MONDAY • EVERY_TUESDAY • EVERY_WEDNESDAY • EVERY_THURSDAY • EVERY_FRIDAY • EVERY_SATURDAY
UpdateStartTime	read/write	Sets downloading time when "AutoUpdate" is "VALID". The valid ranges are: • 00:00 ~ 23:50 Time must be set by the 10 minute.
ProxyAddress	read/write	Sets the IP address of the proxy server.
ProxyPort	read/write	Sets the port number of the proxy server.
ProxyUser	read/write	Sets the user name with which the repository connects to the proxy server.
ProxyPassword	read/write	Sets the user password with which the repository connects to the proxy server. This is displayed in "*****".

Table 4-21 Specific commands of '/repository/localsetting'

Command	Description
set	Sets local repository settings properties.

Examples

'show' command enables you to view local repository settings.

```
-> show /repository/localsetting
ufip=/repository/localsetting
ufit=localsetting
Targets:
Properties:
   RepositoryPassword=*****
   AutoUpdate=VALID
   UpdateInterval=EVERY_SATURDAY
   UpdateStartTime=23:50
   ProxyAddress=-
   ProxyPort=0
   ProxyUser=-
   ProxyPassword=-
Verbs:
   cd
   exit
   help
   show
   set
```

Examples

'set' command enables you to set one or more local repository settings properties. If there are multiple properties on the same command line, they must be separated by a space.

When you enable automatic downloading, run the following command.

```
set /repository/localsetting AutoUpdate=VALID
```

When you set the schedule type, run the following command.

```
set /repository/localsetting UpdateInterval=EVERY_SATURDAY
```

When you set downloading time, run the following command.

```
set /repository/localsetting UpdateStartTime=23:50
```

When you set the IP address and the port number of the proxy server on the same command line, run the following command.

```
set /repository/localsetting ProxyAddress=192.168.0.200 ProxyPort=8080
```

CHECK :

- In the case of the user authority is Operator, "Change Environment Setting" of the user level must be enabled.

4.3.1.2 Remote repository settings

Remote repository settings are located at the following target.

- /repository/remotesetting

Properties and specific commands of this target are as follows.

Table 4-22 Properties of '/repository/remotesetting'

Property	Access	Description
RemoteRepositoryAddress	read/write	Sets OS IP address of the other Manager PC.
RemoteRepositoryPort	read/write	Sets port number of the other Manager PC.
RemoteRepositoryPassword	read/write	Sets password that is configured in [RepositoryPassword] on the other Manager PC.

Table 4-23 Specific commands of '/repository/remotesetting'

Command	Description
set	Sets remote repository settings properties.

Table 4-24 Specific option of '/repository/remotesetting'

Option	Description
-f | *-force*	Even if it cannot be connected to the other Manager PC repository, properties are set by force.

Examples

'show' command enables you to view remote repository settings.

```
-> show /repository/remotesetting
ufip=/repository/remotesetting
ufit=remotesetting
Targets:
Properties:
   RemoteRepositoryAddress=192.168.0.100
   RemoteRepositoryPort=8080
   RemoteRepositoryPassword=*****
Verbs:
   cd
   exit
   help
   show
   set
```

Examples

'set' command enables you to set one or more remote repository settings properties. If there are multiple properties on the same command line, they must be separated by a space.

If you want to set repository location in remote, it is necessary to set RemoteRepositoryAddress, RemoteRepositoryPort, and RemoteRepositoryPassword properties.

```
set /repository/remotesetting RemoteRepositoryAddress=192.168.0.100 RemoteRepositoryPort=8080 RemoteRepositoryPassword=password
```

When the correct value is set, repository location is changed in remote.

CHECK：

- The following properties must be specified when repository location is set to remote.
  - RemoteRepositoryAddress
  - RemoteRepositoryPort

- RemoteRepositoryPassword
- In the case of the user authority is Operator, "Change Environment Setting" of the user level must be enabled.

Examples
When you add *-force* option, properties are set by force.

```
set -force /repository/remotesetting RemoteRepositoryAddress=192.168.0.111
```

4.3.2 Adding update packages to repository

'load' command at below targets enables you to add or download update packages.

- /repository

Specific command of this target is as follow. There is no property for this target.

Table 4-25 Specific command of '/repository'

Command	Description
load	Downloads update packages from update package server. Adds update packages to repository.

Specific option of this command is as follow.

Table 4-26 Specific options of '/repository'

Option	Description
-wait	Watches it until the downloading of the update packages is completed. This option is valid only when you download without adding *-source* option.
-source	When you add the specified update package to repository, you specify the update package file path.
-f | -force	Adds the update package specified by *-source* option to the repository, even if it is not necessary for the components.

Examples
'load' command enables you to download update packages.

```
-> load /repository
COMMAND COMPLETED
Downloading update packages. Run the show command to the repository and you can confirm the command's result from UpdatePkgLatestDownloaded property.
```

The download process will start and return to the input prompt. To confirm this command results, run `show` command and confirm UpdatePkgLatestDownloded property. This value is updated at the downloading end time.

```
UpdatePkgLatestDownloaded=4/1/2011 12:00:00
```

Examples
'load -wait' command enables you to watch it until downloading is completed.

```
-> load -wait /repository
Downloading update packages.
Press Ctrl + D to stop monitoring.
.....
Downloading update packages was finished. Please press Ctrl + D.
```

The download process will start and progress "..." will be displayed. When downloading is finished, an end message is displayed. After the end message, you need to press "Ctrl + D" key and return to the input prompt.

Examples

When you stop monitoring during downloading, press "Ctrl + D" key and return to the input prompt.

```
-> load -wait /repository
Downloading update packages.
Press Ctrl + D to stop monitoring.
...

Monitoring was stopped. Run the show command to the repository and you can confirm the command's result from UpdatePkgLatestDownloaded property.
```

Examples

'load -source' command enables you to add update packages to repository. Specify the path of the update package file. When you add *-source* option, you can add update package which is not necessary for components.

```
-> load -source C:\temp\package_634335370718834422.zip /repository
COMMAND COMPLETED
   Added specified update packages.
      "System BIOS_Windows_4.0_02172011105550"
```

4.3.3 Removing update packages from repository

4.3.3.1 Removing all update packages

Removing all update packages is located at the following target.

- /repository/uppkgs

Properties and specific commands of this target are as follows.

Table 4-27 Property of '/repository/uppkgs'

Property	Access	Description
EntryCount	read	Displays a number of update packages managed by repository.

Table 4-28 Specific command of '/repository/uppkgs'

Command	Description
delete	Removes all update packages.

Specific option of this command is as follow.

Table 4-29 Specific option of '/repository/uppkgs'

Option	Description
-f | *-force*	Even if the repository is shared and the specified update packages are referred to by other repository, the update packages are deleted.

Examples

'delete' command enables you to remove all update packages.

```
-> delete /repository/uppkgs
COMMAND COMPLETED
"NEC ExpressUpdate Agent_Windows_3.00_03022011171440" was deleted.
"NEC ExpressUpdate Agent_Linux_3.00_03102011100740" was deleted.
```

CHECK：

- In the case of the user authority is Operator, "Change Environment Setting" of the user level must be enabled.

TIP :

- When you delete by force, update packages in use by other Manager PC can be removed.

4.3.3.2 Removing the update package

Removing update package is located at the following target.

- /repository/uppkgs/<uppkg name>

Specific command of this target is as follow. There is no property for this target.

Table 4-30 Specific command of '/repository/uppkgs/<uppkg name>'

Command	Description
delete	Removes update package.

Specific option of this command is as follow.

Table 4-31 Specific option of '/repository/uppkgs/<uppkg name>'

Option	Description
-f | *-force*	Even if the repository is shared and the specified update package is referred to by other repository, the update package is deleted.

Examples

'delete' command enables you to remove the update package.

```
-> delete /repository/uppkgs/"System BIOS_Windows_4.0_02172011105550"
COMMAND COMPLETED
"System BIOS_Windows_4.0_02172011105550" was deleted.
```

CHECK :

- In the case of the user authority is Operator, "Change Environment Setting" of the user level must be enabled.

4.3.4 Update packages information

4.3.4.1 Update packages informatioin

Information about update packages is located at the following target.

- /repository/uppkgs

Examples

'show' command enables you to view information about update packages.

```
-> show /repository/uppkgs
ufip=/repository/uppkgs
ufit=uppkgs
Targets:
   "NEC ExpressUpdate Agent_Linux_3.00_20110310100740"
   "NEC ExpressUpdate Agent_Windows_3.00_20110302171440"
Properties:
   EntryCount=2
Verbs:
   cd
   exit
   help
   show
   delete
```

4.3.4.2 The update package information

Information about the update package is located at the following target.

- /repository/uppkgs/<uppkg name>

Property of this target is as follow. There is no specified command for this target.

Table 4-32 Properties of '/repository/uppkgs/<uppkg name>'

Property	Access	Description
Module	read	Displays the name of firmware or software.
Version	read	Displays the version of the update package.
Release	read	Displays the release date of the update package.
Target	read	Displays the operating system name that the update package supports.
Model	read	Displays the model name of the component that the update package supports.
EstimatedTime	read	Displays the estimate of the time to install the update package.
InstallEstimatedTime	read	Displays the estimate of the time to install, when the module supports installation.
UninstallEstimatedTime	read	Displays the estimate of the time to uninstall, when the module supports uninstallation.
Reboot	read	Displays whether that the selected update package requires a reboot after the installation. • NECESSITY • UNNECESSITY
Severity	read	Displays the severity of the update package. • LOW • MEDIUM • HIGH
ExpressUpdateSupported	read	Displays whether the update package supports automatic updating by NEC ExpressUpdate. • SUPPORTED • UNSUPPORTED
DowngradeSupported	read	Displays whether the update package supports downgrade. • SUPPORTED • UNSUPPORTED
MultipleModelSupported	read	Displays whether the update package supports multiple mode of component. • SUPPORTED • UNSUPPORTED
OtherUsed	read	Displays whether the update package is in use by other NEC ESMPRO Manager.. • UNOCCUPIED • DURING_USE

Examples

'show' command enables you to view information about the update package.

```
-> show /repository/uppkgs/"NEC ExpressUpdate Agent_Windows_3.00_20110302171440"
ufip=/repository/uppkgs/ "NEC ExpressUpdate Agent_Windows_3.00_20110302171440"
ufit="NEC ExpressUpdate Agent_Windows_3.00_20110302171440"
Targets:
   readme
Properties:
   Module=NEC ExpressUpdate Agent
   Version=3.00
   Release= 4/1/2011 12:00:00
   Target=Windows Server 2003 Enterprise Edition
            Windows Server 2003 Standard Edition
            Windows Server 2003 R2 Enterprise Edition
            Windows Server 2003 R2 Standard Edition
   Model=Express5800/E120b-1
         Express5800/T120a-M
   EstimatedTime=180s
   InstallEstimatedTime=120s
   UninstallEstimatedTime=300s
   Reboot=UNNECESSITY
   Severity=-
   ExpressUpdateSupported=SUPPORTED
   DowngradeSupported=UNSUPPORTED
   MultipleModelSupported=SUPPORTED
   OtherUsed=UNOCCUPIED
Verbs:
   cd
   exit
   help
   show
   delete
```

4.3.4.3 Readme file information

After saving the readme file, you can view the readme file written notes about the update package. Information about the readme file in the update package is located at the following target.

- /repository/uppkgs/<uppkg name>/readme

Specific command of this target is as follow. There is no property for this target.

Table 4-33 Specific command of '/repository/uppkgs/<uppkg name>/readme'

Command	Description
dump	Saves the readme file to specified directory.

Table 4-34 Specific option of '/repository/uppkgs/<uppkg name>/readme'

Option	Description
-destination	Specifies the directory to save the readme file. Required option.
-f | *-force*	When there is a same name file in the directory of the destination, the file is overwritten.

CHECK：

- The readme file name depends on the update package. You can't specify the readme file name when you save it.

Examples

'dump' command enables you to save the readme file to specified directory. Adds *-destination* option and specifies the path of the directory. When you add *-force* option, the readme file is overwritten.

```
-> dump -destination C:\temp /repository/uppkgs/"NEC ExpressUpdate
Agent_Linux_3.00_20110310100740"/readme
COMMAND COMPLETED
C:\temp\readme_en.txt
```

When the command succeeds, the readme file path is displayed.

```
C:\temp\readme_en.txt
```

Chapter5 Log management

5.1 Logging

You can get the following logs.

- NEC ESMPRO Manager application log
- NEC ExpressUpdate Agent log

5.1.1 Application log list

Information of NEC ESMPRO Manager application logs is located at the following target.

- /logs

Properties and specific commands of this target are as follows.

Table 5-1 Properties of '/logs'

Property	Access	Description
EntryCount	read	Displays the number of application log.
MaxEntryCount	read	Displays the maximum number of application log.

Table 5-2 Specific commands of '/logs'

Command	Description
dump	Saves NEC ESMPRO Manager application log to the specified directory. File is saved in zip format. When a file name is not included in the path, LOG.zip file is saved.

Table 5-3 Specific option of '/logs'

Option	Description
-destination	Specifies the destination path of the directory or the file name. Absolute path and relative path can be specified. Required option.
-f | *-force*	When there is a same name file in the destination directory, the file is overwritten.

Examples

'show' commands enable you to view the list of NEC ESMPRO Manager application log.

```
-> show /logs
ufip=/logs
ufit=logs
Targets:
   log0
   log1
   log2
   log3
   log4
   log5
   log6
   log7
   log8
   log9
   log10
   ...
   log74
Properties:
   EntryCount=75
   MaxEntryCount=2000
Verbs:
   cd
   exit
   help
   show
   dump
```

Examples

'dump' commands enable you to save application logs to the specified directory. Add *-destination* option, and specify the directory path to save file.

The following shows an example.

```
-> dump -destination C:\temp
COMMAND COMPLETED
C:\temp\LOG.zip
```

If you want to save the application log file any name, specify the zip file name to the path and execute commands.

```
dump -destination C:\temp\application_log.zip /logs
```

When you add *-force* option, the zip file is overwritten.

```
dump -destination C:\temp\application_log.zip -force /logs
```

5.1.2 Application log

Information of NEC ESMPRO Manager application log is located at the following target.

- /logs/<log>

Property of this target is as follow. There is no specified command for this target.

Table 5-4 Properties of '/logs<log>'

Property	Access	Description
Type	read	Displays the type of application log. • INFORMATIOIN • WARNING • ERROR
ComponentName	read	Displays the component name.
IpAddress	read	Displays the OS IP address of the component.
BmcIpAddress	read	Displays the BMC IP address of the component.
Date	read	Displays the date when the application log was registered.
User	read	Displays the user who executed this operation.
Contents	read	Displays the application log.

Examples

'show' commands enable you to view the NEC ESMPRO Manager application log.

```
-> show /logs/log10
ufip=/logs/log10
ufit=log10
Targets:
Properties:
   Type=INFORMATION
   ComponentName=Server01
   IpAddress=192.168.0.2
   BmcIpAddress=192.168.0.3
   Date=4/1/2011 12:00:00
   User=-
   Contents=The component was added.
Verbs:
   cd
   exit
   help
   show
```

5.1.3 NEC ExpressUpdate Agent log

Information of NEC ExpressUpdate Agent log is located at the following target.

- /cmps/<component name>/map/agtlogs/expupagtlog

IMPORTANT :

- In <component name>, specify the component that the update function via NEC ExpressUpdate Agent is effective.
- To get NEC ExpressUpdate Agent log, NEC ExpressUpdate Agent must be running.

Specific command of this target is as follow. There is no property for this target.

Table 5-5 Specific commands of '/cmps/<component name>/map/agtlogs/expupagtlog'

Command	Description
dump	Saves NEC ExpressUpdate Agent log to the specified directory. File is saved in zip format.

Table 5-6 Specific options of '/cmps/<component name>/map/agtlogs/expupagtlog'

Option	Description
-destination	Specifies the destination path of the directory or the file name. Absolute path and relative path can be specified. Required option.
-f | *-force*	When there is a same name file in the destination directory, the file is overwritten.

Examples

'show' commands enable you to view NEC ExpressUpdate Agent log.

```
-> show /cmps/Server01/map/agtlogs/expupagtlog
ufip=/cmps/Server01/map/agtlogs/expupagtlog
ufit=expupagtlog
Targets:
Properties:
Verbs:
   cd
   exit
   help
   show
   dump
```

Examples

'dump' commands enable you to save NEC ExpressUpdate Agent log to the specified directory. Add *-destination* option, and specify the directory path to save file.

```
-> dump -destination C:\temp /cmps/Server01/map/agtlogs/expupagtlog
COMMAND COMPLETED
C:\temp\eualog1.zip
```

If you want to save NEC ExpressUpdate Agent log file any name, specify the zip file name to the path and execute commands.

```
dump -destination C:\temp\eualog.zip /cmps/Server01/map/agtlogs/expupagtlog
```

When you add *-force* option, the zip file is overwritten.

```
dump -destination C:\temp\eualog.zip -force /cmps/Server01/map/agtlogs/expupagtlog
```

Chapter6 Troubleshooting

This section describes the error message and the coping method for it.

6.1 Error message

Table 6-1 Error messages

Error Message	What to do
User name or password is not correct.	Please confirm the user name and the password, and please input again.
Failed to connect to NEC ESMPRO Manager.	■ Windows OS: Please confirm that the NEC ESMPRO Manager service (ESMPRO/SM Common Component) is running. ■ Linux OS: Please confirm that the following process is running by `ps aux` command. "/opt/nec/es_manager/jre/bin/java com.nec.jp.dianascope.CoreServer"

Chapter7 Terminology

Table 7-1 Terminology

Term	Description
CLI	Command Line Interface
BMC	Baseboard Management Controller The management controller to manage the interface between system management software and platform hardware.
DMTF	Distributed Management Task Force An industry standard body that defines WBEM standards for the industry.
SMASH	Systems Management Architecture for Server Hardware A suite of specifications that deliver industry standard protocols to increase productivity of the management of a data center.
Address Space	A set of instances that represent managed element or provided functions. These instances are accessed using a unique path.
Managed Element	An instance of managed element or provided function on NEC ESMPRO Manager. It constructs the address space.
UFiT	User Friendly instance Tag User-friendly identifier for a specific instance of a CIM class.
UFiP	User Friendly instance Path The unique path to an instance formed by concatenating the UFiTs of each instance from the root instance to the terminating instance.
Component	An object that is managed by NEC ESMPRO Manager.
NEC ExpressUpdate	The function that manages versions of modules like firmware and software on the managed server and that updates the modules. Available since NEC ESMPRO Manager Ver5.1.
NEC ExpressUpdate Agent	Software that provides NEC ExpressUpdate function. It is installed on the managed component and communicates with NEC ESMPRO Manager.
Module	The module like firmware and software.
Update package	The package which the update tool of the module is included in.
Update package server	The update package server from where the repository downloads update packages.
Repository	The component of the NEC ESMPRO Manager for NEC ExpressUpdate that downloads update packages from the update package server and manages them. Available since NEC ESMPRO Manager Ver5.1.

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1.01	2011/10/13	Changes cover.

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